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1988 Report on Fishing Vessel Performance

Scotia-Fundy Region

Economic and Commercial Analysis Report No. 34

Fisheries and Oceans Pêches et Océans

Canada

1988 REPORT ON FISHING VESSEL PERFORMANCE

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ABSTRACT

Characteristics of Scotia-Fundy groundfish specific vessels are presented in this report. Included are descriptions of vessel physical characteristics, investment profiles, catch and effort and financial performance.

RÉSUMÉ

Ce rapport présente les caractéristiques particulières des bâteaux pêchant le poisson de fond. Une description des caractéristiques physiques des bâteaux, les profiles d'investissement, les prises et efforts de pêche ainsi que les performances financières y sont présentés.

INTRODUCTION

Certain components of the Scotia Fundy fleet are surveyed yearly for vessel performance information. Approximately one-third of the active fleet is covered each year. At the end of a three year cycle, samples of the entire active Scotia Fundy fleet under 65' length overall (LOA) have been surveyed. The 1988 vessel performance survey focused on those vessels which were mainly involved in harvesting groundfish.[1] This population numbered 422 vessels and accounted for $63,752,665 in landed value or 16% of the total landed value in Scotia Fundy during 1988.

[1]Refer to Appendix 1 for a description of this fleet sector.

SCOTIA FUNDY FLEET STRUCTURE

For analysis purposes we have divided the Scotia Fundy fishing vessel population into a number of sub fleets depending on vessel size, species caught, gear used and in some cases homeport location. The following diagram shows the 1988 landings and value attributed to all the different fleet components in Scotia Fundy. The largest component in terms of value landed is the mixed fleet. This component includes those vessels less than 45' LOA which were not groundfish specific. Nearly all of the vessels landing inshore lobster are included in this fleet.

SCOTIA-FUNDY 1988 FLEET LANDINGS[1]

TOTAL LANDINGS (Tonnes)	TOTAL VALUE $
550,551	421 Million

MIXED FLEETS	
(Tonnes)	($)
53,247	139 Million
No. of Vessels 2553	

HERRING PURSE SEINE FLEET	
(Tonnes)	($)
107,900	18 Million
No. of Vessels 38	

OFFSHORE SCALLOP FLEETS	
(Tonnes)	($)
44,818	47 Million
No. of Vessels 57	

OFFSHORE LOBSTER FLEETS	
(Tonnes)	($)
638	4 Million
No. of Vessels 6	

GROUNDFISH/SCALLOP 45-64'11"[4]	
(Tonnes)	($)
11,746	11 Million
No. of Vessels 30	

BAY OF FUNDY SCALLOP FLEET	
(Tonnes)	($)
21,131	23 Million
No. of Vessels 67	

GROUNDFISH VESSELS >65'	
(Tonnes)	($)
88,320	35 Million
No. of Vessels 46	

GROUNDFISH FLEET 35'-64'11"[2]	
(Tonnes)	($)
73,840	64 Million
No. of Vessels 422	

VESSELS REGISTERED OUTSIDE S-F[3]	
(Tonnes)	($)
10,454	5 Million
No. of Vessels 71	

LESS THAN $10,000 FLEET	
(Tonnes)	($)
2,679	4 Million
No. of Vessels 1057	

OTHER FLEETS[5]	
(Tonnes)	($)
19,045	22 Million
No. of Vessels Unknown	

OTHER[6]	
(Tonnes)	($)
116,644	49 Million
No. of Vessels Unknown	

---

[1] See Appendix 1 for fleet definitions.

[2] This is the fleet studied in this report.

[3] These are landings in Scotia-Fundy by vessels registered in some region other than Scotia-Fundy.

[4] These vessels (LOA 45-64'11") do not fit the criteria for Bay of Fundy scallop vessels or groundfish specific vessels as 80% of their total landed value is not due to either species alone. Rather they catch a combination of both scallop and groundfish.

[5] This group includes vessels that do not fit any of the other fleet criteria. It includes offshore clam vessels, shrimp vessels and swordfish/groundfish combination vessels >65'.

[6] Landings not attributed to specific vessels.

BROAD VIEW OF THE SCOTIA-FUNDY FISHERY

In Scotia-Fundy during 1988, approximately 4400[1] vessels landed 550,000 tonnes of fish valued at 421 million dollars. Following are two charts showing the volume and value breakdowns by species. Lobster and groundfish together account for 68% of the total 1988 landed value in Scotia Fundy.

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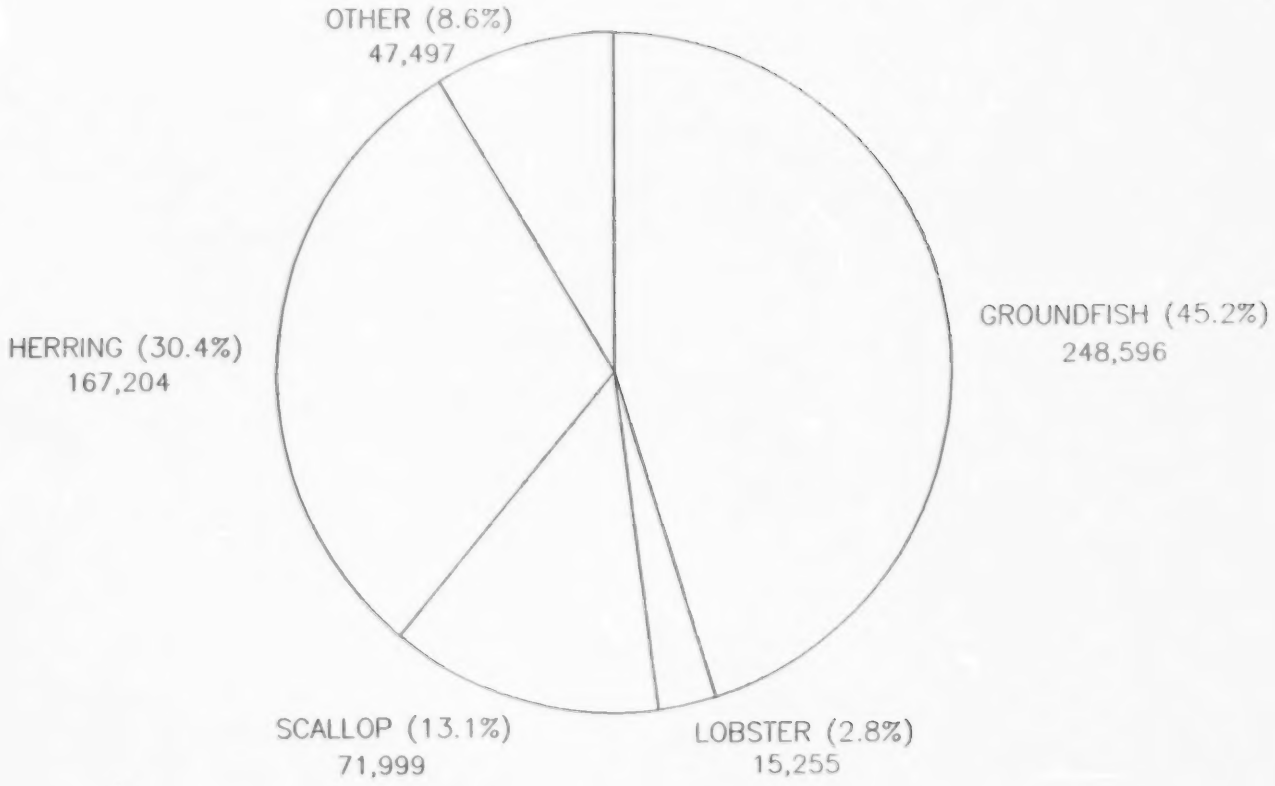
[1]In addition to these vessels there were approximately 2200 registered vessels with no reported landings in 1988.

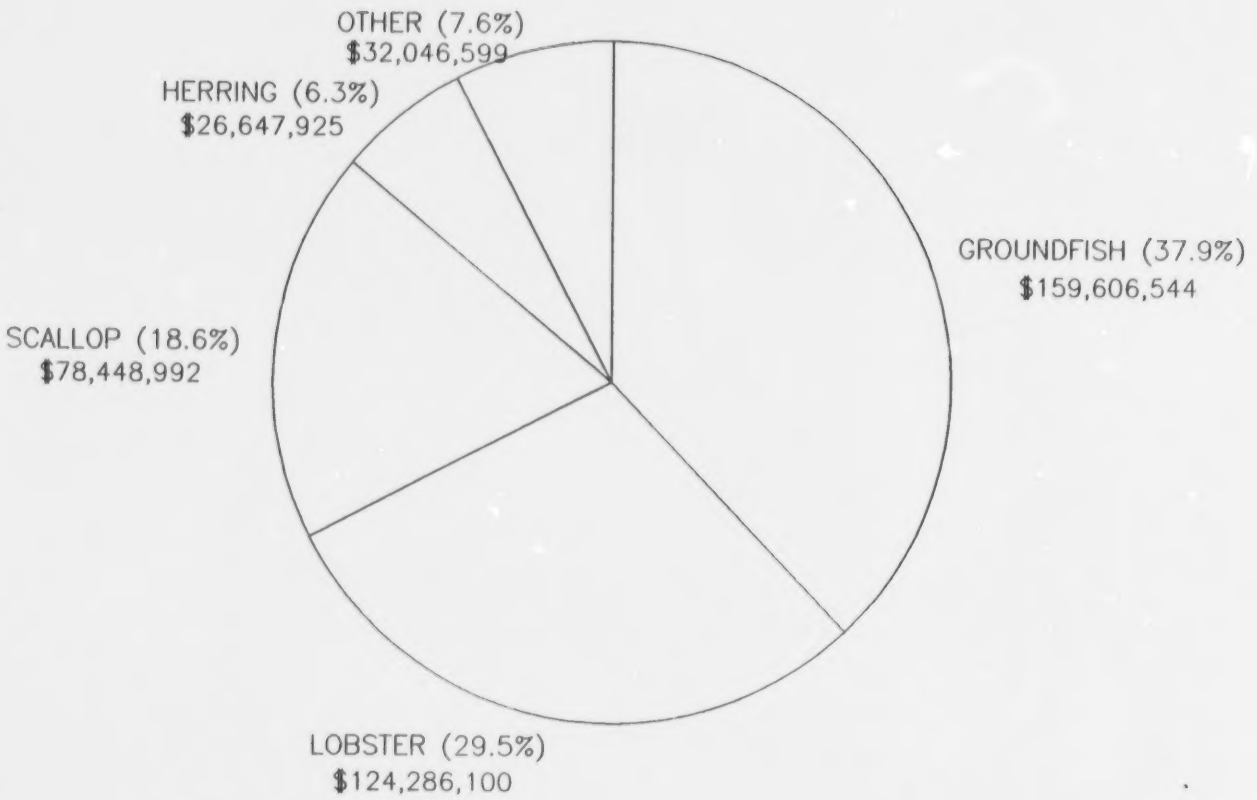
SCOTIA FUNDY 1988 LANDINGS

ROUND WEIGHT TONNES



SCOTIA FUNDY 1988 LANDED VALUE

DOLLARS



METHODOLOGY

This report provides costs and earnings information on Scotia Fundy's longline and mobile gear groundfish vessels. This population included only those vessels which landed at least $10,000 of fish in 1988 and which ranged in LOA from 35' to 64'11". Further stratifications were determined by geographic location of homeport and gear used. The following table shows the fleet component breakdown and the number of vessels meeting the criteria for each component.

FLEET COMPONENT	NUMBER OF VESSELS IN POPULATION IN 1988
4VW GF LONGLINE GEAR 35'-64'11"	79
4VW GF MOBILE GEAR 35'-44'11"	35
4VW GF MOBILE GEAR 45'-64'11"	16
4X GF LONGLINE GEAR 35'-44'11"	94
4X GF LONGLINE GEAR 45'-64'11"	17
4X GF MOBILE GEAR 35'-44'11"	111
4X GF MOBILE GEAR 45'-64'11"	57
4X+4VW SWORDFISH/GF LONGLINE GEAR 35'-64'11"	13
TOTAL	422

Random samples were chosen from each fleet component. The total sample size of 240 was broken down as follows:

FLEET COMPONENT	NUMBER OF VESSELS IN SAMPLE IN 1988
4VW GF LONGLINE GEAR 35'-64'11"	40
4VW GF MOBILE GEAR 35'-44'11"	34
4VW GF MOBILE GEAR 45'-64'11"	15[1]
4X GF LONGLINE GEAR 35'-44'11"	40
4X GF LONGLINE GEAR 45'-64'11"	17
4X GF MOBILE GEAR 35'-44'11"	40
4X GF MOBILE GEAR 45'-64'11"	41
4X+4VW SWORDFISH/GF LONGLINE GEAR 35'-64'11"	13
TOTAL	240

[1]Originally all 16 vessels in this fleet were selected.Upon interviewing it was found that one vessel had changed homeports and thus belonged in the 4X mobile 45'-64'11" group.

This year the number of completed questionaires was very low. The interviews were conducted during the early months of 1989. At that time, the Scotia Fundy mobile groundfish fleet was experiencing the effect of quota reductions. The resulting situation was less than conducive to questionaire completion. As a result only 127 completed usable questionaires were obtained. There were 72 outright refusals and another 41 cases which included unusable questionaires, respondents unable to be contacted and a small number which when contacted were found not to fit the criteria used to choose them.[2]

FLEET COMPONENT	NO. IN SAMPLE	NO. COMPLETED QUESTIONAIRES
4VW GF LONGLINE GEAR 35'-64'11"	40	28
4VW GF MOBILE GEAR 35'-44'11"	34	20
4VW GF MOBILE GEAR 45'-64'11"	15	7
4X GF LONGLINE GEAR 35'-44'11"	40	22
4X GF LONGLINE GEAR 45'-64'11"	17	7
4X GF MOBILE GEAR 35'-44'11"	40	24
4X GF MOBILE GEAR 45'-64'11"	41	12
4X+4VW SWORDFISH/GF 35'-64'11" LL GEAR	13	7
TOTAL	240	127

[2]The respondents were chosen based on information stored in the departmental licensing and catch and effort databases. Errors in items such as homeport or species mix could result in vessels being assigned to an incorrect fleet component.

VESSEL CHARACTERISTICS

The vessels surveyed for this study are all between 35' and 64' 11" LOA. The mobile vessels on the average are larger and have more powerful engines than longliners in the same length category. Approximately 46% of the fleet consists of wooden vessels and 40% of fibreglass. Sole proprietorship was the most common type of ownership with 49% of the sampled vessels reporting this type of ownership.

TABLE 1
SELECTED CHARACTERISTICS OF VESSELS

	SECTOR							
	4VW LL 35-64	4X LL 35-44	4X LL 45-64	4VW MOB 35-44	4VW MOB 45-64	4X MOB 35-44	4X MOB 45-64	SWORDFISH 35-64
Vessel Characteristics								
-Average Length Overall in Ft.	41	42	53	43	58	43	60	52
-Average Age	8	8	10	9	11	7	14	12
-Average Gross Tonnage	27	33	57	30	81	35	70	55
-Average Brake Horsepower	198	184	251	206	463	285	432	308
-Average Crew Incl. Skipper	4.1	4.1	5.3	3.5	4.9	2.7	3.2	5.9
-Average No. of Days Fished	80	73	83	84	105	94	101	78
Construction Material of Hull								
-Vessels with Wood Hull	10	4	6	12	3	8	12	4
-Vessels with Steel Hull	-	-	1	-	3	2	-	-
-Vessels with Fibreglass Hull	14	14	-	8	-	13	-	2
-Vessels with Wood-Covered Fibreglass Hull	4	4	-	-	-	1	-	1

TABLE 1 - CONTINUED
SELECTED CHARACTERISTICS OF VESSELS

	SECTOR							
	4VW LL 35-64	4X LL 35-44	4X LL 45-64	4VW MOB 35-44	4VW MOB 45-64	4X MOB 35-44	4X MOB 45-64	SWORDFISH 35-64
-Vessels With Aluminum Hull	-	-	-	-	1	-	-	-
Ownership Type								
-Sole Proprietorship	21	9	1	17	2	9	2	1
-Processing Company	1	3	2	-	4	1	4	-
-Privately Incorporated	2	8	4	-	1	12	4	5
-Fishermans Partnership	4	-	-	3	-	1	-	1
-Joint Fisherman Processing Co.	-	2	-	-	-	1	1	-
-Other	-	-	-	-	-	-	1	-

DEBT AND INVESTMENT

Table 2 shows the number of vessels in each category using various sources to finance their original investment. The Fisheries Loan Board was the most common source of loans.

Table 3 shows the average amount borrowed from each source for both the original investment and additions or alterations.

Table 4 provides investment broken down by vessel component. Total investment in the surveyed vessel and associated facilities is presented in Table 5. The average debt position of the vessels is presented in Table 6. All vessel groups on the average with the exception of the 4VW mobile fleet reported a net increase in debt from the beginning of 1988 until the end of the year.

TABLE 2
DISTRIBUTION OF VESSELS BY SOURCE OF FINANCING USED FOR VESSEL PURCHASE

	SECTOR							
	4VW LL 35-64	4X LL 35-44	4X LL 45-64	4VW MOB 35-44	4VW MOB 45-64	4X MOB 35-44	4X MOB 45-64	SWORDFISH 35-64
Number Of Vessels With:								
-Federal Subsidy	4	1	2	2	4	2	4	2
-Provincial Subsidy	-	-	-	-	-	1	-	1
-Fisheries Loan Board Loan	18	10	4	7	5	12	8	5
-Commercial Bank Loan	7	3	1	8	2	9	2	1
-Finance Company Loan	1	1	-	-	-	1	-	1
-Processing Company Loan	1	2	-	5	3	-	-	-
-Other Loans	-	2	2	-	-	-	-	1
-Personal Investment	26	19	4	17	5	19	11	6
-Number Of Vessels With Only Personal Investment	3	4	1	4	1	2	1	-
TOTAL *	28	21	7	19	7	23	11	6

* The columns do not add up to the number of vessels in the group since most vessels have more than one source of financing.

TABLE 3
SOURCES OF FINANCING ORIGINAL INVESTMENT[1] IN VESSELS
(DOLLARS PER AVERAGE VESSEL)

	SECTOR							
	4VW LL 35-64	4X LL 35-44	4X LL 45-64	4VW MOB 35-44	4VW MOB 45-64	4X MOB 35-44	4X MOB 45-64	SWORDFISH 35-64
Original Cost								
-Federal Subsidy	4179	476	8964	2237	110286	4217	16307	20167
-Provincial Subsidy	-	-	-	-	-	1309	-	1667
-Fisheries Loan Board	59988	41428	102037	35794	242857	106513	170759	141823
-Commercial Bank	10750	10810	1929	24474	136714	44283	70786	11667
-Finance Company	1786	7429	-	-	-	8696	-	33333
-Process Company	1629	3429	-	31898	51571	-	-	-
-Other Loans	-	5714	187500	-	-	-	-	5000
-Personal Investment	30442	60279	28227	53140	34684	54414	116253	54010
Total Original Investment	108773	129563	328657	147543	576113	219431	374104	267667

[1]Original cost to present owner, that is, may be cost of construction, or purchase price of existing vessel.

TABLE 3 - CONTINUED
SOURCES OF FINANCING ORIGINAL INVESTMENT IN VESSELS
(DOLLARS PER AVERAGE VESSEL)

	SECTOR							
	4VW LL 35-64	4X LL 35-44	4X LL 45-64	4VW MOB 35-44	4VW MOB 45-64	4X MOB 35-44	4X MOB 45-64	SWORDFISH 35-64
Additions/Alterations								
-Federal Subsidy	1904	57	-	92	-	1087	-	4167
-Provincial Subsidy	-	-	-	-	-	174	-	-
-Fisheries Loan Board	1343	-	10714	-	4286	3043	-	-
-Commercial Bank	3164	4048	-	-	-	-	6091	10833
-Finance Company	-	-	-	-	-	-	-	-
-Other Loans	1059	726	-	3526	-	-	-	-
-Personal Investment	8564	10781	32601	14481	21500	28472	61486	46183
Total Additions	16034	15612	43315	18100	25786	32776	67577	61183

TABLE 4
AVERAGE INVESTMENT BY VESSEL COMPONENT
(DOLLARS PER AVERAGE VESSEL)

	SECTOR							
	4VW LL 35-64	4X LL 35-44	4X LL 45-64	4VW MOB 35-44	4VW MOB 45-64	4X MOB 35-44	4X MOB 45-64	SWORDFISH 35-64
Original Cost								
-Hull	69543	71978	151321	85806	406967	115145	259620	193667
-Engine	18118	25719	93474	22368	57604	46144	51398	33333
-Deck Equipment	4768	12500	57603	12779	44961	32233	27305	7667
-Electronic Equipment	14129	14438	14529	15274	39787	16539	24709	30500
-License	2173	4762	9016	10526	5714	9370	7182	833
-Other	43	167	2714	789	21079	-	3891	1667
-Total Original Cost	108773	129563	328657	147543	576113	219431	374104	267667
Additions Cost								
-Hull	6683	6081	15913	5525	13143	13565	14182	16333
-Engine	4332	4812	20380	3466	2143	8139	26927	22917
-Deck Equipment	1463	624	3409	4677	7143	4870	14878	2300

TABLE 4 - CONTINUED
AVERAGE INVESTMENT BY VESSEL COMPONENT
(DOLLARS PER AVERAGE VESSEL)

	SECTOR							
	4VW LL 35-64	4X LL 35-44	4X LL 45-64	4VW MOB 35-44	4VW MOB 45-64	4X MOB 35-44	4X MOB 45-64	SWORDFISH 35-64
-Electronic Equipment	3199	2905	3041	4432	3357	6203	11591	19633
-Other	357	1190	571	-	-	-	-	-
-Total Additions	16034	15612	43315	18100	25786	32776	67577	61183
TOTAL	124807	145175	371972	165643	601899	252208	441681	328850

TABLE 5
SUMMARY OF AVERAGE TOTAL INVESTMENT*

	SECTOR							
	4VW LL 35-64	4X LL 35-44	4X LL 45-64	4VW MOB 35-44	4VW MOB 45-64	4X MOB 35-44	4X MOB 45-64	SWORDFISH 35-64
Average Vessel Investment	124434	145175	371972	165643	601899	252208	441681	298943
Average Facility Investment	3285	1071	10114	4651	1143	1726	3830	5129
Average Vessel & Facility Investment	127719	146247	382087	170294	603042	253934	445510	304071
Less Average Vessel Subsidies	5734	533	8964	2329	110286	6787	16307	22286
Average Net Investment	121984	145713	373122	167965	492756	247147	429203	281786

* Figures may differ slightly from those in Table 3 because of missing data in this table. Vessels with facility information missing are excluded from this table.

TABLE 6
AVERAGE DEBT POSITION

	SECTOR							
	4VW LL 35-64	4X LL 35-44	4X LL 45-64	4VW MOB 35-44	4VW MOB 45-64	4X MOB 35-44	4X MOB 45-64	SWORDFISH 35-64
Debt Balance - January 1/88	48840	34972	263633	58045	217000	90725	63335	65942
Add New Debt, 1988	11718	13425	-	17146	119714	16583	81720	93333
Unpaid Interest, 1988	287	-	24000	-	-	3	-	-
Subtract - Principal Paid*	7614	7086	73403	11215	17300	13731	16914	19098
Debt Balance - December 31/88	53231	41311	214230	63976	319414	93590	128141	130178
Net Change in Debt	4391	6339	-49403	5931	102414	2855	64806	74235

* Includes payments made on interest arrears.

EFFORT, LANDINGS, LANDED VALUE

Table 7 shows distribution of vessels by gear fished; Table 8 shows vessel distribution by days fished and days at sea, and Tables 9 and 10 show days fished and days at sea by gear type and Tables 11 and 12 show species round weight and value by gear type. Table 13 shows average round weight by species by sector and Table 14 average value by species by sector.

TABLE 7
DISTRIBUTION BY TYPE OF GEAR FISHED
(NUMBER OF VESSELS)

Gear Type	SECTOR							
	4VW LL 35-64	4X LL 35-44	4X LL 45-64	4VW MOB 35-44	4VW MOB 45-64	4X MOB 35-44	4X MOB 45-64	SWORDFISH 35-64
Gillnet Groundfish	2	-	-	1	-	1	-	-
Handline Groundfish	3	3	2	1	-	1	-	1
Mobile Groundfish	1	-	-	20	7	24	12	-
Longline Groundfish	28	22	7	-	-	1	-	7
Gillnet Mackerel	1	-	-	-	-	-	-	-
Handline Mackerel	2	-	-	-	-	-	-	-
Longline Swordfish	1	1	1	-	-	1	-	7
Harpoon	2	1	-	-	-	-	-	-
Troller Lines	-	3	-	-	-	-	-	-
Purse Seine	-	-	-	1	-	-	-	-
Lobster Trap	2	4	-	-	-	-	-	-

TABLE 8
DISTRIBUTION BY CLASS BY NUMBER OF
DAYS AT SEA AND DAYS FISHED
(NUMBER OF VESSELS)

Number Of Days At Sea	SECTOR							
	4VW LL 35-64	4X LL 35-44	4X LL 45-64	4VW MOB 35-44	4VW MOB 45-64	4X MOB 35-44	4X MOB 45-64	SWORDFISH 35-64
1-25	1	1	-	1	-	-	-	-
26-50	3	2	-	-	-	1	-	-
51-75	4	5	2	5	1	3	3	1
76-100	5	7	2	6	1	7	3	3
101-125	8	5	1	6	2	5	2	-
126-150	3	2	-	-	-	5	1	-
151+	2	-	1	-	3	1	2	1

TABLE 8 - CONTINUED
DISTRIBUTION BY CLASS BY NUMBER OF
DAYS AT SEA AND DAYS FISHED
(NUMBER OF VESSELS)

Number Of Days Fishing	SECTOR							
	4VW LL 35-64	4X LL 35-44	4X LL 45-64	4VW MOB 35-44	4VW MOB 45-64	4X MOB 35-44	4X MOB 45-64	SWORDFISH 35-64
1-25	1	1	-	1	-	-	-	-
26-50	5	3	1	1	1	3	1	-
51-75	7	7	3	5	-	6	4	3
76-100	9	8	1	7	2	4	2	1
101-125	3	-	-	4	2	7	1	-
126-150	1	2	-	-	2	1	2	1
151+	1	-	1	-	-	1	1	-

TABLE 9
AVERAGE NUMBER OF DAYS AT SEA BY GEAR

DAYS AT SEA	SECTOR							
	4VW LL 35-64	4X LL 35-44	4X LL 45-64	4VW MOB 35-44	4VW MOB 45-64	4X MOB 35-44	4X MOB 45-64	SWORDFISH 35-64
Groundfish								
-Mobile	2	-	-	89	127	102	112	-
-GF Gillnet	1	-	-	-	-	1	-	-
-GF Longline	90	82	101	-	-	1	-	47
-GF Handline	3	1	-	-	-	-	-	-
Pelagic And Estuarial								
-Swordfish Longline	1	-	-	-	-	-	-	49
-Tuna	-	1	-	-	-	-	-	-
Molluscs And Crustaceans								
-Lobster Trap	1	3	-	-	-	-	-	-
Total Days At Sea	99	87	101	90	127	104	112	96

TABLE 10
AVERAGE NUMBER OF DAYS FISHED BY GEAR

DAYS FISHED	SECTOR							
	4VW LL 35-64	4X LL 35-44	4X LL 45-64	4VW MOB 35-44	4VW MOB 45-64	4X MOB 35-44	4X MOB 45-64	SWORDFISH 35-64
Groundfish								
-Mobile	1	-	-	83	105	92	101	-
-GF Gillnet	1	-	-	-	-	1	-	-
-GF Longline	72	68	83	-	-	1	-	36
-GF Handline	3	1	-	-	-	-	-	-
Pelagic And Estuarial								
-Swordfish Longline	1	-	-	-	-	-	-	42
-Tuna	-	1	-	-	-	-	-	-
Molluscs And Crustaceans								
-Lobster Trap	1	3	-	-	-	-	-	-
Total Days Fished	80	73	83	84	105	94	101	78

TABLE 11
AVERAGE LANDINGS (ROUND WEIGHT KG)
BY TYPE OF GEAR

	SECTOR							
	4VW LL 35-64	4X LL 35-44	4X LL 45-64	4VW MOB 35-44	4VW MOB 45-64	4X MOB 35-44	4X MOB 45-64	SWORDFISH 35-64
Groundfish								
-Mobile Gear	667	-	-	155290	415233	231019	364916	-
-Set Gillnet	1696	-	-	75	-	2877	-	-
-Longline	154155	133214	245836	-	-	1500	-	128333
-Handline	197	1068	7611	75	-	67	-	7466
Pelagic And Estuarial								
-Set Gillnet Mackerel	113	-	-	-	-	-	-	-
-Longline Swordfish	1171	6	66	-	-	251	-	22128
-Handline Mackerel	168	-	-	-	-	-	-	-
-Herring Mackerel With Purse Seine	-	-	-	537	-	-	-	-
-Harpoon Swordfish	18	6	-	-	-	-	-	-

TABLE 11 - CONTINUED
AVERAGE LANDINGS (ROUND WEIGHT KG)
BY TYPE OF GEAR

	SECTOR							
	4VW LL 35-64	4X LL 35-44	4X LL 45-64	4VW MOB 35-44	4VW MOB 45-64	4X MOB 35-44	4X MOB 45-64	SWORDFISH 35-64
-Tuna Troll	-	365	-	-	-	-	-	-
-Tuna Longline	-	-	-	-	-	5	-	296
-Unspecified Pelagic	-	-	-	-	-	-	-	88
Molluscs And Crustaceans								
-Lobster Trap	168	335	-	-	-	-	-	-
-Shrimp Trawl	-	-	-	-	18	-	-	-
Shark With Tuna Troll	-	2	-	-	-	-	-	-
Shark With GF Mobile	-	-	-	2	-	71	-	-
Shark With GF Longline	42	26	202	-	-	-	-	306
Shark With Swordfish Longline	-	-	-	-	-	4	-	954
Total Round Weight	158394	135022	253716	155979	415251	235794	364916	159551

TABLE 12
AVERAGE LANDED VALUE ($)
BY TYPE OF GEAR

	SECTOR							
	4VW LL 35-64	4X LL 35-44	4X LL 45-64	4VW MOB 35-44	4VW MOB 45-64	4X MOB 35-44	4X MOB 45-64	SWORDFISH 35-64
Groundfish								
-Mobile	486	-	-	117582	240966	184771	275349	-
-Set Gillnet	709	-	-	50	-	1769	-	-
-Longline	131623	142211	272026	-	-	1085	-	137425
-Handline	153	580	3520	50	-	42	-	4275
Pelagic And Estuarial								
-Set Gillnet Mackerel	33	-	-	-	-	-	-	-
-Longline Swordfish	6009	44	248	-	-	1572	-	161029
-Handline Mackerel	44	-	-	-	-	-	-	-
-Herring/Mackerel With Purse Seine	-	-	-	158	-	-	-	-
-Harpoon Swordfish	118	33	-	-	-	-	-	-

TABLE 12 - CONTINUED
AVERAGE LANDED VALUE ($)
BY TYPE OF GEAR

	SECTOR							
	4VW LL 35-64	4X LL 35-44	4X LL 45-64	4VW MOB 35-44	4VW MOB 45-64	4X MOB 35-44	4X MOB 45-64	SWORDFISH 35-64
-Tuna Troll	-	5121	-	-	-	-	-	-
-Tuna Longline	-	-	-	-	-	12	-	1378
-Unspecified Pelagic	-	-	-	-	-	-	-	189
Molluscs And Crustaceans								
-Lobster Trap	1237	3011	-	-	-	-	-	-
-Shrimp Trawl	-	-	-	-	32	-	-	-
Shark With Tuna Troll	-	3	-	-	-	-	-	-
Shark With GF Mobile Gear	-	-	-	1	-	66	-	-
Shark With GF Longline	46	31	141	-	-	-	-	574
Shark With Swordfish LL	-	-	-	-	-	4	-	2546
Total Landed Value	140460	151032	275936	117840	240998	189321	275349	307416

TABLE 13
AVERAGE LANDINGS (ROUND WEIGHT KG)
BY SPECIES BY SECTOR

	SECTOR							
	4VW LL 35-64	4X LL 35-44	4X LL 45-64	4VW MOB 35-44	4VW MOB 45-64	4X MOB 35-44	4X MOB 45-64	SWORDFISH 35-64
Groundfish Total	156714	134284	253446	155441	415233	235464	364916	135780
-Cod	116381	68624	139158	71364	294655	81385	113759	42893
-Haddock	9509	21712	25926	13643	18782	51219	115267	21621
-Redfish	18	177	224	1972	28230	3210	15692	185
-Flounder Unspecified	9488	3	6299	62921	38519	35873	24233	737
-Halibut	2530	4661	12711	5	-	482	449	4802
-Pollock	1882	2442	8628	4035	31914	46365	78351	9643
-Hake	13916	13933	9941	801	522	13201	14534	35476
-Cusk	1211	21240	49026	-	-	169	93	19999
-Catfish	1333	351	1036	236	891	2673	2325	186
-Unspecified Groundfish	446	1141	497	464	1720	887	213	238

TABLE 13 - CONTINUED
AVERAGE LANDINGS (ROUND WEIGHT KG)
BY SPECIES BY SECTOR

	SECTOR							
	4VW LL 35-64	4X LL 35-44	4X LL 45-64	4VW MOB 35-44	4VW MOB 45-64	4X MOB 35-44	4X MOB 45-64	SWORDFISH 35-64
Pelagic And Estuarial Total	1470	377	66	537	-	256	-	22512
-Herring	-	-	-	157	-	-	-	-
-Mackerel	281	-	-	380	-	-	-	-
-Swordfish	1189	12	66	-	-	251	-	22128
-Tuna	-	365	-	-	-	5	-	296
-Unspecified Pelagic	-	-	-	-	-	-	-	88
Molluscs And Crustaceans Total	168	335	-	-	18	-	-	-
-Lobster	168	335	-	-	-	-	-	-
-Unspecified Molluscs And Crustaceans	-	-	-	-	18	-	-	-
Unspecified Fish	44	27	202	2	-	75	-	1259
Total Round Weight	158394	135022	253716	155979	415251	235794	364916	159551

TABLE 14
AVERAGE LANDED VALUE (DOLLARS)
BY SPECIES BY SECTOR

	SECTOR							
	4VW LL 35-64	4X LL 35-44	4X LL 45-64	4VW MOB 35-44	4VW MOB 45-64	4X MOB 35-44	4X MOB 45-64	SWORDFISH 35-64
Groundfish Total	132972	142792	275546	117683	240966	187667	275351	141699
-Cod	95759	68024	134041	45378	171340	59977	75420	52395
-Haddock	9969	32886	39390	11889	14992	57547	133091	32532
-Redfish	5	104	164	688	8763	1912	5905	113
-Flounder Unspecified	6984	2	4239	57661	35204	43866	27872	414
-Halibut	10614	23515	66944	14	-	2113	1851	20790
-Pollock	576	1001	3248	1635	10080	15914	25311	4035
-Hake	8114	5777	3740	156	114	4831	4707	16475
-Cusk	441	10658	23156	-	-	110	38	14720
-Catfish	322	114	335	48	166	859	998	44
-Unspecified Groundfish	188	711	289	214	307	538	158	181

TABLE 14 - CONTINUED
AVERAGE LANDED VALUE (DOLLARS)
BY SPECIES BY SECTOR

	SECTOR							
	4VW LL 35-64	4X LL 35-44	4X LL 45-64	4VW MOB 35-44	4VW MOB 45-64	4X MOB 35-44	4X MOB 45-64	SWORDFISH 35-64
Pelagic And Estuarial Total	6205	5197	248	158	-	1584	-	162596
-Herring	-	-	-	35	-	-	-	-
-Mackerel	78	-	-	123	-	-	-	-
-Swordfis[1]	6127	76	248	-	-	1572	-	161029
-Tuna	-	5121	-	-	-	12	-	1378
-Unspecified Pelagic	-	-	-	-	-	-	-	189
Molluscs And Crustaceans Total	1237	3011	-	-	32	-	-	-
-Lobster	1237	3011	-	-	-	-	-	-
-Unspecified Molluscs And Crustaceans	-	-	-	-	32	-	-	-
-Unspecified Fish	47	34	141	1	-	70	-	3120
Total Landed Value	140460	151032	275936	117840	240998	189321	275349	307416

TABLE 15
DISTRIBUTION OF VESSELS BY RANGE
OF LANDINGS BY SECTOR
(ROUND WEIGHT KILOGRAMS)

	SECTOR							
Landings Round Weight	4VW LL 35-64	4X LL 35-44	4X LL 45-64	4VW MOB 35-44	4VW MOB 45-64	4X MOB 35-44	4X MOB 45-64	SWORDFISH 35-64
10001-20000	-	1	-	-	-	1	-	-
20001-30000	1	-	-	-	-	-	-	-
30001-40000	2	-	-	1	-	2	-	-
40001-50000	-	2	-	-	-	-	-	-
50001-75000	8	3	1	3	-	-	-	-
75001-100000	2	2	1	3	-	1	-	3
100001-150000	4	6	-	5	-	3	1	1
150001-200000	4	1	-	5	1	3	1	1
200001-250000	3	7	1	1	1	4	1	1
250001-300000	-	-	2	1	1	2	2	-
300001-350000	-	-	-	-	-	4	1	-

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TABLE 15 - CONTINUED
DISTRIBUTION OF VESSELS BY RANGE
OF LANDINGS BY SECTOR
(ROUND WEIGHT KILOGRAMS)

	SECTOR							
	4VW LL 35-64	4X LL 35-44	4X LL 45-64	4VW MOB 35-44	4VW MOB 45-64	4X MOB 35-44	4X MOB 45-64	SWORDFISH 35-64
350001-400000	2	-	1	-	-	1	-	1
400001-450000	1	-	-	-	1	1	3	-
450001-500000	-	-	1	-	-	2	1	-
500001+	1	-	-	1	3	-	2	-

TABLE 16
DISTRIBUTION OF VESSELS BY RANGE
OF LANDED VALUE BY SECTOR
(DOLLARS)

Landed Value Dollars	SECTOR							
	4VW LL 35-64	4X LL 35-44	4X LL 45-64	4VW MOB 35-44	4VW MOB 45-64	4X MOB 35-44	4X MOB 45-64	SWORDFISH 35-64
10001-20000	2	1	-	-	-	-	-	-
20001-30000	1	-	-	1	-	1	-	-
30001-40000	-	1	-	-	-	-	-	-
40001-50000	4	1	-	1	-	2	-	-
50001-75000	5	2	-	3	-	-	-	-
75000-100000	5	2	-	5	-	2	-	-
100001-150000	3	5	2	5	2	4	2	-
150001-200000	4	3	1	4	-	6	2	1
200001-250000	-	4	-	-	2	2	1	1
250001-300000	-	2	2	-	-	4	2	2

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TABLE 16 - CONTINUED
DISTRIBUTION OF VESSELS BY RANGE
OF LANDED VALUE BY SECTOR
(DOLLARS)

	SECTOR							
	4VW LL 35-64	4X LL 35-44	4X LL 45-64	4VW MOB 35-44	4VW MOB 45-64	4X MOB 35-44	4X MOB 45-64	SWORDFISH 35-64
300001-350000	3	1	-	-	2	2	2	1
350001-400000	-	-	1	-	1	-	1	1
450001-500000	-	-	-	1	-	1	2	-
500001+	1	-	1	-	-	-	-	1

FINANCIAL PERFORMANCE

Table 17 provides the average revenue obtained and costs incurred by each fleet.

Table 18 provides a cash flow statement by fleet. In both tables only 2 fleets report a loss - the 4X longliners 45-64' and the 4VW mobile vessels 45-64' LOA.

TABLE 17
REVENUE AND COSTS BY SECTOR[1]

	SECTOR						
	4VW LL 35-64	4X LL 35-44	4X LL 45-64	4VW MOB 35-44	4X MOB 35-44	4X MOB 45-64	SWORDFISH 35-64
Total Fish Sales	140460	151032	275936	117840	189321	275349	307416
Variable Costs							
-Fuel Costs	7649	7155	12333	8352	20051	30262	13161
-Bait Costs	16033	20621	26382	89	167	-	28497
-Ice-Salt Costs	403	660	969	520	527	290	-
-Provisions Costs	3759	6604	8417	2424	4069	4778	9915
-Workmens Compensation	1070	2043	3517	1197	2520	3607	6217
-Non-Fish Labour Costs	4269	5109	9107	385	141	496	7212
-Facilities Operating Costs	77	113	235	36	25	50	-
-Other Operating Costs	909	592	2225	477	422	1131	2044
Variable Costs Excluding Labour	34169	42896	63186	13479	27920	40614	67045

[1]Data not available for this table for 4VW mobile vessels 45-64

TABLE 17 - CONTINUED
REVENUE AND COSTS BY SECTOR

	SECTOR						
	4VW LL 35-64	4X LL 35-44	4X LL 45-64	4VW MOB 35-44	4X MOB 35-44	4X MOB 45-64	SWORDFISH 35-64
Repair and Maintenance Costs	6261	6879	12068	6566	9811	24887	9934
Net Gear Expense	5730	11632	11099	6948	15342	22188	27045
Fixed Costs							
-Vessel Insurance Costs	3005	3738	9110	4104	5642	11377	6711
-Vessel Interest Costs	5181	4903	26580	5552	9971	11061	10491
-Vessel Rental Costs	27	135	16	26	527	41	1880
-Storage Costs	16	-	-	5	409	-	24
-Fees Cost	576	1274	1803	919	1506	1871	3833
-Wharfage Costs	-	14	104	-	24	313	82
-Other Fixed Costs	567	650	2046	754	901	1332	2323
-Facilities Fixed Costs	8	82	38	10	-	489	-

TABLE 17 - CONTINUED
REVENUE AND COSTS BY SECTOR

	SECTOR						
	4VW LL 35-64	4X LL 35-44	4X LL 45-64	4VW MOB 35-44	4X MOB 35-44	4X MOB 45-64	SWORDFISH 35-64
Fixed Costs Subtotal	9380	10795	39698	11370	18979	26483	25344
Total Costs	55540	72202	126052	38363	72052	114172	129367
Returns Before Labour And Depreciation	84919	78830	149884	79477	117269	161177	178049
Crewshare	50314	45031	91511	37324	49409	61373	116935
Returns To Skipper And Owner Before Depreciation	34605	33799	58374	42154	67860	99804	61114
Vessel Total Depreciation	8628	9517	24155	10715	15233	26626	19699
Facilities Depreciation	145	110	829	204	69	345	261
Returns To Owners And Skippers	25832	24172	33390	31234	52558	72833	41154

TABLE 17 - CONTINUED
REVENUE AND COSTS BY SECTOR

	SECTOR						
	4VW LL 35-64	4X LL 35-44	4X LL 45-64	4VW MOB 35-44	4X MOB 35-44	4X MOB 45-64	SWORDFISH 35-64
Skipper Share[1]	14844	20072	36325	15725	31978	41873	37345
-Skipper Owner Share	13048	14035	11903	12392	25323	11764	34065
-Skipper Hired Share	1796	6037	24421	3333	6656	30110	3280
Returns To Vessel	10988	4100	-2935	15509	20580	30960	3808

[1]The skipper share shown here is the average amount of skipper share over the season whether the skipper was hired or the skipper was the owner. The next two lines show which component was hired skipper and which was owner skipper. This does not mean that this was the average amount earned by a hired skipper rather it is just the total amount of hired skipper dollars averaged over the fleet. In many cases both hired skipper and skipper owners served as skipper on the same vessel at different points during the year.

TABLE 18
CASH FLOW BY SECTOR[1]

	SECTOR						
	4VW LL 35-64	4X LL 35-44	4X LL 45-64	4VW MOB 35-44	4X MOB 35-44	4X MOB 45-64	SWORDFISH 35-64
Total Fish Sales	140460	151032	275936	117840	189321	275349	307416
Varialbe Costs Subtotal	34169	42896	63186	13479	27920	40614	67045
Repairs And Maintenance Costs	6261	6879	12068	6566	9811	24887	9934
Gear Costs	5730	11632	11099	6948	15342	22188	27045
Fixed Costs Excluding Interest Subtotal	4199	5892	13118	5818	9008	15422	14852
Total Operating Costs	50359	67299	99472	32811	62082	103112	118876
Crewshare[2]	50314	45031	91511	37324	49409	61373	116935
Financial Costs							
Principal Paid	7614	7086	73403	11215	13731	16914	19098
Interest Paid	4916	3986	6008	5519	9603	11061	10871

[1]Data not available for this table for 4VW mobile vessels 45-64.

[2]Does not include skipper owners or hired skipper share.

TABLE 18 - CONTINUED
CASH FLOW BY SECTOR

	SECTOR						
	4VW LL 35-64	4X LL 35-44	4X LL 45-64	4VW MOB 35-44	4X MOB 35-44	4X MOB 45-64	SWORDFISH 35-64
Returns To Owners And Skippers	27256	27631	5542	30972	54497	82890	41636
Skipper Hired Share	1796	6037	24421	3333	6656	30110	3280
Return To Owner[3]	25460	21594	-18879	27639	47841	52781	38356

[3] Includes skipper share in those cases where the skipper is the owner.

APPENDIX 1

SCOTIA FUNDY FLEET BREAKDOWN[1]

4VW GF LONGLINE 35'-64'11"	vessels with LOA of 35'to 64'11"; homeport in 4VW; earning at least $10,000; catch at least 80% of the total value from groundfish using longline.
4VW GF MOBILE 35'-44'11"	vessels with LOA 35'-44'11"; homeport in 4VW; earning at least $10,000; catch at least 80% of total value from groundfish using mobile gear.
4VW GF MOBILE 45'-64'11"	vessels with LOA 45'-64'11"; homeport in 4VW; earning at least $10,000; catch at least 80% of the total value from groundfish using mobile gear.
4X GF LONGLINE 35'-44'11"	vessels with LOA 35'-44'11"; homeport in 4X; earning at least $10,000; catch at least 80% of total value from groundfish using longline gear.
4X GF LONGLINE 45'-64'11"	vessels with LOA 45'-64'11"; homeport in 4x; earning at least $10,000; catch at least 80% of total value from groundfish using longline gear.
4X GF MOBILE 35'-44'11"	vessels with LOA 35'-44'11"; homeport in 4X; earning at least $10,000; catch at least 80% of total value from groundfish using mobile gear.
4X GF MOBILE 45'-64'11"	vessels with LOA 45'-64'11"; homeport in 4x; earning at least $10,000; catch at least 80% of total value from groundfish using mobile gear.
GF/SWORDFISH 35'-64'11"	vessels with LOA 35' to 64'11"; homeport in Scotia Fundy; earning at least $10,000; earning at least 33% of total value from swordfish; at least 80% of total value from groundfish plus swordfish using longline gear.
GF LONGLINE 65'-99'	vessels with LOA 65' to 99'; homeport in Scotia Fundy; earning at least $10,000; catch at least 80% of total value from groundfish using longline gear.

[1]The fleets described on this page with the exception of GF LL 65'-99' are covered in this vessel performance study.

APPENDIX 1 (CONT'D)

GF MOBILE 65'-99'	vessels with LOA 65' to 99'; homeport in Scotia Fundy; earning at least $10,000; catch at least 80% of total value from groundfish using mobile gear.
GF GE 100'	vessels with LOA greater than or equal to 100'; homeport in Scotia Fundy; earning at least $10,000;catch at least 80% of total value from groundfish.
BAY OF FUNDY SCALLOP	vessels which hold a Bay of Fundy scallop license; with homeport in Scotia Fundy; earning at least $10,000; earning at least 80% of total value from scallops.
OFFSHORE SCALLOP	vessels with homeport in Scotia Fundy; earning at least $10,000; earning at least 80% of their total value from scallops; holding offshore scallop license.
HERRING PURSE SEINE	vessels with homeport in Scotia Fundy; earning at least $10,000; catch at least 80% of total value using herring purse seine gear.
MIXED LFA 27	vessels with LOA less than 45'; homeport in Lobster Fishing Area (LFA)27; earning at least $10,000; not in above specialized fleets.
MIXED LFA 28-30	vessels with LOA less than 45'; homeports in LFA'S 28,29 or 30; earning at least $10,000; not in above specialized fleets.
MIXED LFA 31-32	vessels with LOA less than 45'; homeport in LFA 31 or 32; earning at least $10,000; not in above specialized fleets.
MIXED LFA 33	vessels with LOA less than 45'; homeport in LFA 33;earning at least $10,000; not in above specialized fleets.
MIXED LFA 34	vessels with LOA less than 45'; homeport in LFA 34;earning at least $10,000; not in above specialized fleets.

APPENDIX 1 (CONT'D)

MIXED LFA 35	vessels with LOA less than 45'; homeport in LFA 35; earning at least $10,000; not in above specialized fleets.
MIXED LFA 36	vessels with LOA less than 45'; homeport in LFA 36; earning at least $10,000; not in above specialized fleets.
MIXED LFA 38	vessels with LOA less than 45'; homeport in LFA 38; earning at least $10,000; not in above specialized fleets.
OFFSHORE LOBSTER	vessels with homeport in Scotia Fundy; catch at least 80% of total value from lobster; holding an offshore lobster license.
LESS THAN $10,000	vessels with homeport in Scotia Fundy; earning less than $10,000.

APPENDIX 2

CONFIDENCE INTERVALS FOR SAMPLE DATA

SECTOR	TOTAL LANDED VALUE[1]		LOA	
	INTERVAL[2] BASED ON SAMPLE DATA	POPULATION AVERAGE	INTERVAL BASED ON SAMPLE DATA	POPULATION AVERAGE
4VWLL 35-64	$ 85,975-199,943	108,149	39-43	41
4XLL 35-44	$110,946-191,118	126,546	41-44	41
4XLL 45-64	$122,889-428,983	246,558	47-58	55
4VW Mobile 35-44	$ 76,304-159,376	108,256	42-43	43
4VW Mobile 45-64	$147,888-334,108	232,782	51-65	56
4X Mobile 35-44	$142,973-235,669	147,235	42-44	43
4X Mobile 45-64	$196,126-354,572	216,004	57-64	60
Swordfish/GF 35-64	$179,064-435,768	227,184	43-62	55

Using the sample data on 2 variables - revenue and LOA, confidence intervals were computed. The average revenue and LOA for each of the fleet populations was then computed. In all cases the population averages fit within the intervals computed from sample data.

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[1]The average revenue figures for the entire 8 populations surveyed fit within the intervals computed based on sample data.

[2]Using the t distribution due to small sample sizes, and using 95% confidence level.

APPENDIX 3
TABLE A - PERCENTAGE OF VESSELS BY LOA
FOR POPULATION AND CORRESPONDING SAMPLE

	SECTOR															
	4VW LL 35-64		4VW MOB 35-44		4VW MOB 45-64		4X LL 45-64		4X LL 45-64		4X MOB 35-44		4X MOB 45-64		SF/GF 35-64	
	POP	SAMPLE	POP	SAMPLE	POP	SAMPLE	POP	SAMPLE	POP	SAMPLE	POP	SAMPLE	POP	SAMPLE	POP	SAMPLE
LOA	%		%		%		%		%		%		%		%	
0-14																
15-19																
20-24																
25-29																
30-34																
35-39	36	43	3				31	23			9	8				14
40-44	54	47	97	100			69	77			91	92			8	14
45-49	3				43	29			35	43			7	8	31	14
50-54	5	7			13	14			18	29			7		8	14
55-59	1	4							12	14			25	33	15	14
60-64	1				44	57			35	14			61	58	39	29

APPENDIX 3
TABLE B - PERCENTAGE OF VESSELS BY AGE

AGE (YEARS)	SECTOR													
	4VW LL 35-64		4VW MOB 35-44		4VW MOB 45-64		4X LL 45-64		4X LL 45-64		4X MOB 35-44		4X MOB 45-64		SW/GP 35-64	
	POP	SAMPLE	POP	SAMPLE	POP	SAMPLE	POP	SAMPLE	POP	SAMPLE	POP	SAMPLE	POP	SAMPLE	POP	SAMPLE
	%		%		%		%		%		%		%		%	
Less Than 5	23	32	12	15	19	29	38	36	6	14	31	29	21	17	8	14
5-9	29	29	34	30	12	14	42	36	47	29	38	54	23	17	23	29
10-14	24	25	40	50	31	43	10	14	18	43	22	8	26	17	8	-
15-19	19	11	14	5	19	-	6	14	24	14	7	8	7	17	38	43
20-24	5	4	-	-	6	-	1	-	6	-	2	-	12	25	8	14
25+	-	-	-	-	6	14	2	-	-	-	-	-	11	8	15	-
Unknown	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-

APPENDIX 3
TABLE C - PERCENTAGE OF VESSELS BY GROSS TONNAGE

GROSS TONNAGE	SECTOR															
	4VW LL 35-64		4VW MOB 35-44		4VW MOB 45-64		4X LL 35-44		4X LL 45-64		4X MOB 35-44		4X MOB 45-64		SF/GF 35-64	
	POP	SAMPLE	POP	SAMPLE	POP	SAMPLE	POP	SAMPLE	POP	SAMPLE	POP	SAMPLE	POP	SAMPLE	POP	SAMPLE
	%		%		%		%		%		%		%		%	
Less Than 5	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
5-9	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10-14	27	29	-	-	-	-	17	9	-	-	6	-	-	-	-	-
15-19	11	11	11	5	-	-	10	9	-	-	4	8	-	-	-	-
20-24	13	14	17	15	-	-	7	9	-	-	9	12	-	-	-	-
25-29	18	11	23	35	6	-	10	9	-	-	12	4	-	-	-	-
30-34	9	7	11	15	6	-	17	14	12	14	10	8	2	8	-	-
35-39	13	22	20	15	6	-	13	23	6	14	28	33	2	-	15	29
40-44	1	-	9	10	25	29	13	4	18	14	23	29	9	-	8	-
45-49	4	4	9	5	-	-	8	14	6	14	7	4	3	8	23	29
50-74	4	4	-	-	19	14	4	9	24	29	1	-	46	33	38	29
75-100	-	-	-	-	25	29	-	-	29	-	-	-	37	50	15	14
100+	-	-	-	-	12	29	-	-	6	14	-	-	2	-	-	-

APPENDIX 4
TABLE A - DISTRIBUTION OF SAMPLE VESSELS BY LOA
(NUMBER OF VESSELS)

LOA	SECTOR							
	4VW LL 35-64	4VW MOB 35-44	4VW MOB 45-64	4X LL 35-44	4X LL 45-64	4X MOB 35-44	4X MOB 45-64	SF/GF 35-64
0-14	-	-	-	-	-	-	-	-
15-19	-	-	-	-	-	-	-	-
20-24	-	-	-	-	-	-	-	-
25-29	-	-	-	-	-	-	-	-
30-34	-	-	-	-	-	-	-	-
35-39	12	-	-	5	-	2	-	1
40-44	13	20	-	17	-	22	-	1
45-49	-	-	2	-	3	-	1	1
50-54	2	-	1	-	2	-	-	1
55-59	1	-	-	-	1	-	4	1
60-64	-	-	4	-	1	-	7	2
TOTAL	28	20	7	22	7	24	12	7

APPENDIX 4
TABLE B - DISTRIBUTION OF SAMPLE VESSELS BY AGE

Age In Years	SECTOR							
	4VW LL 35-64	4VW MOB 35-44	4VW MOB 45-64	4X LL 35-44	4X LL 45-64	4X MOB 35-44	4X MOB 45-64	SF/GF 35-64
1	3	1	2	2	1	3	-	1
2	5	1	-	3	-	3	2	-
3	1	1	-	-	-	1	-	-
4	-	-	-	3	-	-	-	-
5	-	-	-	1	-	-	-	-
6	-	1	-	-	-	-	-	1
7	1	1	-	-	-	1	-	1
8	4	2	-	4	2	5	1	-
9	3	2	1	3	-	7	1	-
10	2	6	-	2	-	2	1	-
11	2	2	2	-	2	-	-	-
12	2	-	-	-	-	-	-	-
13	1	-	1	-	-	-	1	-
14	-	2	-	1	1	-	-	-

APPENDIX 4
TABLE B - DISTRIBUTION OF SAMPLE VESSELS BY AGE
CONTINUED

Age In Years	SECTOR							
	4VW LL 35-64	4VW MOB 35-44	4VW MOB 45-64	4X LL 35-44	4X LL 45-64	4X MOB 35-44	4X MOB 45-64	SF/GF 35-64
15	-	1	-	1	-	1	-	2
16	2	-	-	-	-	-	2	-
17	1	-	-	-	1	1	-	1
18	-	-	-	1	-	-	-	-
19	-	-	-	1	-	-	-	-
20	1	-	-	-	-	-	-	-
21	-	-	-	-	-	-	1	1
22	-	-	-	-	-	-	1	-
23	-	-	-	-	-	-	1	-
24+	-	-	1	-	-	-	1	-
Total	28	20	7	22	7	24	12	7

APPENDIX 4
TABLE C - DISTRIBUTION OF SAMPLE VESSELS BY GROSS TONNAGE

Gross Tonnage	SECTOR							
	4VW LL 35-64	4VW MOB 35-44	4VW MOB 45-64	4X LL 35-44	4X LL 45-64	4X MOB 35-44	4X MOB 45-64	SF/GF 35-64
<5	-	-	-	-	-	-	-	-
5-9	-	-	-	-	-	-	-	-
10-14	8	-	-	2	-	-	-	-
15-19	3	1	-	2	-	2	-	-
20-24	4	3	-	2	-	3	-	-
25-29	3	7	-	2	-	1	-	-
30-34	2	3	-	3	1	2	1	-
35-39	6	3	-	5	1	8	-	2
40-44	-	2	2	1	1	7	-	-
45-49	1	1	-	3	1	1	1	2
50-54	-	-	-	2	2	-	1	1
55-59	-	-	-	-	-	-	1	-

APPENDIX 4
TABLE C - DISTRIBUTION OF SAMPLE VESSELS BY GROSS TONNAGE
CONTINUED

Gross Tonnage	SECTOR							
	4VW LL 35-64	4VW MOB 35-44	4VW MOB 45-64	4X LL 35-44	4X LL 45-64	4X MOB 35-44	4X MOB 45-64	SF/GF 35-64
60-64	-	-	1	-	-	-	-	-
65-69	-	-	-	-	-	-	1	-
70-74	-	-	-	-	-	-	1	1
75-99	-	-	2	-	-	-	6	1
100-124	1	-	2	-	-	-	-	-
125-149	-	-	-	-	1	-	-	-
150+	-	-	-	-	-	-	-	-
Total	28	20	7	22	7	24	12	7

APPENDIX 4
TABLE D - DISTRIBUTION OF SAMPLE VESSELS BY BRAKE HORSEPOWER

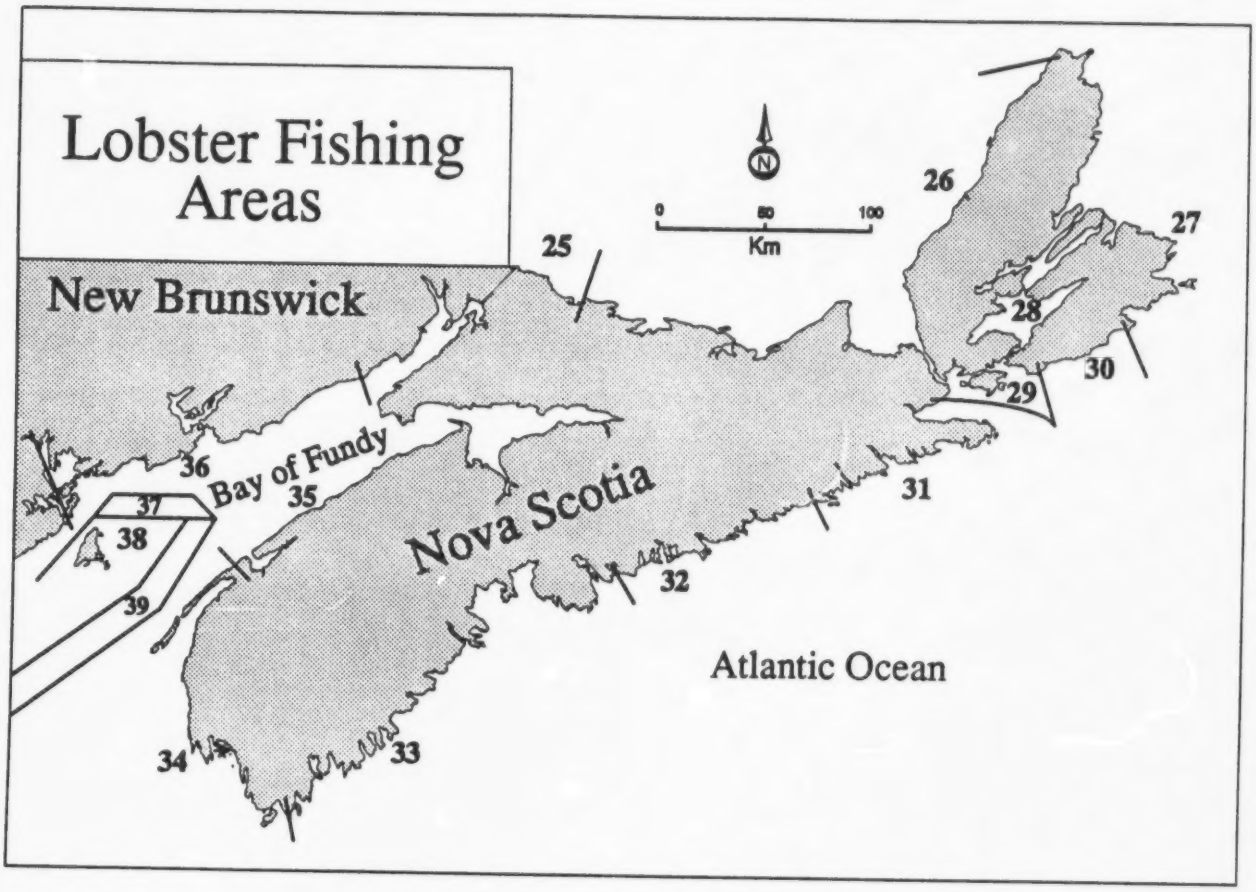
	SECTOR							
Brake Horsepower	4VW LL 35-64	4VW MOB 35-44	4VW MOB 45-64	4X LL 35-44	4X LL 45-64	4X MOB 35-44	4X MOB 45-64	SF/GF 35-64
0-9	-	-	-	-	-	-	-	-
10-19	-	-	-	-	-	-	-	-
20-39	-	-	-	-	-	-	-	-
40-49	-	-	-	-	-	-	-	-
50-59	-	-	-	-	-	-	-	-
60-69	-	-	-	-	-	-	-	-
70-79	-	-	-	-	-	-	-	-
80-89	-	-	-	1	-	-	-	-
90-99	-	1	-	-	-	-	-	-
100-149	7	-	-	4	-	2	-	-
150-199	9	8	1	10	3	2	-	-
200-249	5	7	-	4	2	4	-	1

APPENDIX 4
TABLE D - DISTRIBUTION OF SAMPLE VESSELS BY BRAKE HORSEPOWER
CONTINUED

Brake Horsepower	SECTOR							
	4VW LL 35-64	4VW MOB 35-44	4VW MOB 45-64	4X LL 35-44	4X LL 45-64	4X MOB 35-44	4X MOB 45-64	SF/GP 35-64
250-299	6	2	-	1	-	5	1	1
300-349	-	2	-	2	-	3	2	3
350-399	-	-	1	-	1	7	3	2
400-449	1	-	3	-	1	1	2	-
450-499	-	-	-	-	-	-	1	-
500-749	-	-	1	-	-	-	2	-
750-999	-	-	1	-	-	-	1	-
1000-1249	-	-	-	-	-	-	-	-
1250-1499	-	-	-	-	-	-	-	-
1500+	-	-	-	-	-	-	-	-
Total Number of Vessels	28	20	7	22	7	24	12	7

APPENDIX 4
TABLE E - DISTRIBUTION OF SAMPLE VESSELS BY AVERAGE CREW SIZE
(INCLUDING SKIPPER)

	SECTOR							
Crew Size	4VW LL 35-64	4VW MOB 35-44	4VW MOB 45-64	4X LL 35-44	4X LL 45-64	4X MOB 35-44	4X MOB 45-64	SF/GF 35-64
1.0								
1.1-1.4								
1.5-1.9	-	-	-	1	-	-	-	-
2.0-2.4	1	-	-	1	-	6	-	-
2.5-2.9	-	-	-	-	-	3	-	-
3.0-3.4	9	10	1	2	-	12	9	-
3.5-3.9	1	1	-	4	1	1	1	-
4.0-4.4	5	6	1	4	1	-	1	1
4.5-4.9	1	-	1	1	2	-	-	-
5.0-5.4	7	1	1	8	1	-	-	-
5.5-5.9	-	-	-	-	-	-	-	1
6.0+	2	-	3	1	1	-	-	3
Missing Data	2	2	-	-	1	2	1	2
Total	28	20	7	22	7	24	12	7


Lobster Fishing Areas
New Brunswick
Nova Scotia
Bay of Fundy
Atlantic Ocean
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50
100
Km
25
26
27
28
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30
31
32
33
34
35
36
37
38
39